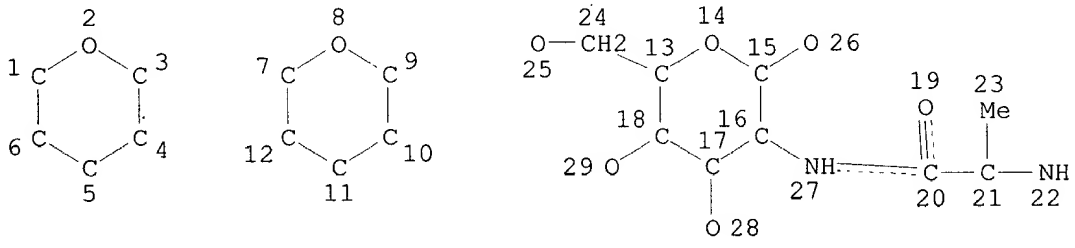
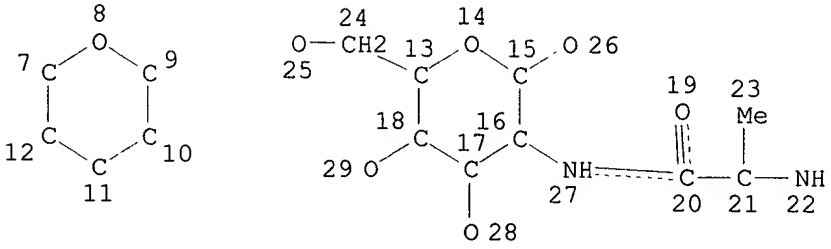
```
=> fil reg; d que l6
FILE 'REGISTRY' ENTERED AT 11:15:36 ON 19 MAR 2002
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2002 American Chemical Society (ACS)

STRUCTURE FILE UPDATES:   17 MAR 2002  HIGHEST RN 401569-84-4
DICTIONARY FILE UPDATES:  17 MAR 2002  HIGHEST RN 401569-84-4

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

Crossover limits have been increased.  See HELP CROSSOVER for details.

Calculated physical property data is now available.  See HELP PROPERTIES
for more information.  See STNote 27, Searching Properties in the CAS
Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

The P indicator for Preparations was not generated for all of the
CAS Registry Numbers that were added to the H/Z/CA/CAplus files between
12/27/01 and 1/23/02.  Use of the P indicator in online and SDI searches
during this period, either directly appended to a CAS Registry Number
or by qualifying an L-number with /P, may have yielded incomplete results.
As of 1/23/02, the situation has been resolved.  Also, note that searches
conducted using the PREP role indicator were not affected.

Customers running searches and/or SDIs in the H/Z/CA/CAplus files
incorporating CAS Registry Numbers with the P indicator between 12/27/01
and 1/23/02, are encouraged to re-run these strategies.  Contact the
CAS Help Desk at 1-800-848-6533 in North America or 1-614-447-3698,
worldwide, or send an e-mail to help@cas.org for further assistance or to
receive a credit for any duplicate searches.

L1                STR
```




```
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS  29

STEREO ATTRIBUTES: NONE
L2            11 SEA FILE=REGISTRY SSS FUL L1
L3               STR
```

original full file search

≥ 3 sugars present



need new search done on this structure (2 sugars; X,Y,Z all = H)

NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 23

STEREO ATTRIBUTES: NONE
L5 13 SEA FILE=REGISTRY SSS FUL L3
L6 2 SEA FILE=REGISTRY ABB=ON L5 NOT L2

previously printed (≥3 sugars)

=> fil capl; d que nos 17; fil uspatf; d que nos 18
FILE 'CAPLUS' ENTERED AT 11:17:11 ON 19 MAR 2002

FILE COVERS 1907 - 19 Mar 2002 VOL 136 ISS 12
FILE LAST UPDATED: 18 Mar 2002 (20020318/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

The P indicator for Preparations was not generated for all of the CAS Registry Numbers that were added to the CAS files between 12/27/01 and 1/23/02. As of 1/23/02, the situation has been resolved. Searches and/or SDIs in the H/Z/CA/CAplus files incorporating CAS Registry Numbers with the P indicator executed between 12/27/01 and 1/23/02 may be incomplete. See the NEWS message on this topic for more information.

L1 STR
L2 11 SEA FILE=REGISTRY SSS FUL L1

```
L3              STR
L5           13 SEA FILE=REGISTRY SSS FUL L3
L6            2 SEA FILE=REGISTRY ABB=ON  L5 NOT L2
L7            4 SEA FILE=CAPLUS ABB=ON  L6


FILE 'USPATFULL' ENTERED AT 11:17:11 ON 19 MAR 2002
CA INDEXING COPYRIGHT (C) 2002 AMERICAN CHEMICAL SOCIETY (ACS)

FILE COVERS 1971 TO PATENT PUBLICATION DATE: 14 Mar 2002 (20020314/PD)
FILE LAST UPDATED: 14 Mar 2002 (20020314/ED)
HIGHEST GRANTED PATENT NUMBER: US6357047
HIGHEST APPLICATION PUBLICATION NUMBER: US2002032920
CA INDEXING IS CURRENT THROUGH 14 Mar 2002 (20020314/UPCA)
ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 14 Mar 2002 (20020314/PD)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Dec 2001
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Dec 2001

>>>  USPAT2 is now available.  USPATFULL contains full text of the     <<<
>>>  original, i.e., the earliest published granted patents or         <<<
>>>  applications.  USPAT2 contains full text of the latest US         <<<
>>>  publications, starting in 2001, for the inventions covered in     <<<
>>>  USPATFULL.  A USPATFULL record contains not only the original     <<<
>>>  published document but also a list of any subsequent              <<<
>>>  publications.  The publication number, patent kind code, and      <<<
>>>  publication date for all the US publications for an invention     <<<
>>>  are displayed in the PI (Patent Information) field of USPATFULL   <<<
>>>  records and may be searched in standard search fields, e.g., /PN, <<<
>>>  /PK, etc.                                                         <<<

>>>  USPATFULL and USPAT2 can be accessed and searched together        <<<
>>>  through the new cluster USPATALL.  Type FILE USPATALL to          <<<
>>>  enter this cluster.                                               <<<
>>>                                                                    <<<
>>>  Use USPATALL when searching terms such as patent assignees,       <<<
>>>  classifications, or claims, that may potentially change from      <<<
>>>  the earliest to the latest publication.                           <<<

This file contains CAS Registry Numbers for easy and accurate
substance identification.


L1              STR
L2           11 SEA FILE=REGISTRY SSS FUL L1
L3              STR
L5           13 SEA FILE=REGISTRY SSS FUL L3
L6            2 SEA FILE=REGISTRY ABB=ON  L5 NOT L2
L8            2 SEA FILE=USPATFULL ABB=ON  L6


=> dup rem l7,l8
FILE 'CAPLUS' ENTERED AT 11:17:18 ON 19 MAR 2002
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2002 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPATFULL' ENTERED AT 11:17:18 ON 19 MAR 2002
CA INDEXING COPYRIGHT (C) 2002 AMERICAN CHEMICAL SOCIETY (ACS)
PROCESSING COMPLETED FOR L7
PROCESSING COMPLETED FOR L8
L10           6 DUP REM L7 L8 (0 DUPLICATES REMOVED)
                ANSWERS '1-4' FROM FILE CAPLUS
```

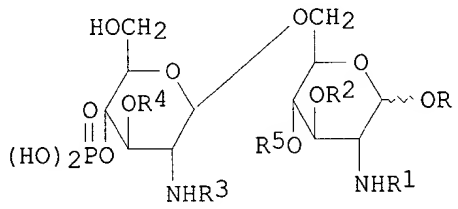
ANSWERS '5-6' FROM FILE USPATFULL

=> d ibib abs hitstr l10 1-6; fil cao; d que nos 19; fil hom

L10 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1990:552973 CAPLUS
DOCUMENT NUMBER: 113:152973
TITLE: Preparation of 6-O-(.beta.-D-glucosaminyl)-D-glucosamine phosphate derivatives as antitumor agents
INVENTOR(S): Shiba, Tetsuo; Soga, Tsunehiko; Kusama, Tsuneom
PATENT ASSIGNEE(S): Daiichi Seiyaku Co., Ltd., Japan
SOURCE: Pat. Specif. (Aust.), 121 pp.
CODEN: ALXXAP
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
AU 595987	B2	19900412	AU 1988-12541	19880301
AU 8812541	A1	19890907		

OTHER SOURCE(S): MARPAT 113:152973
GI

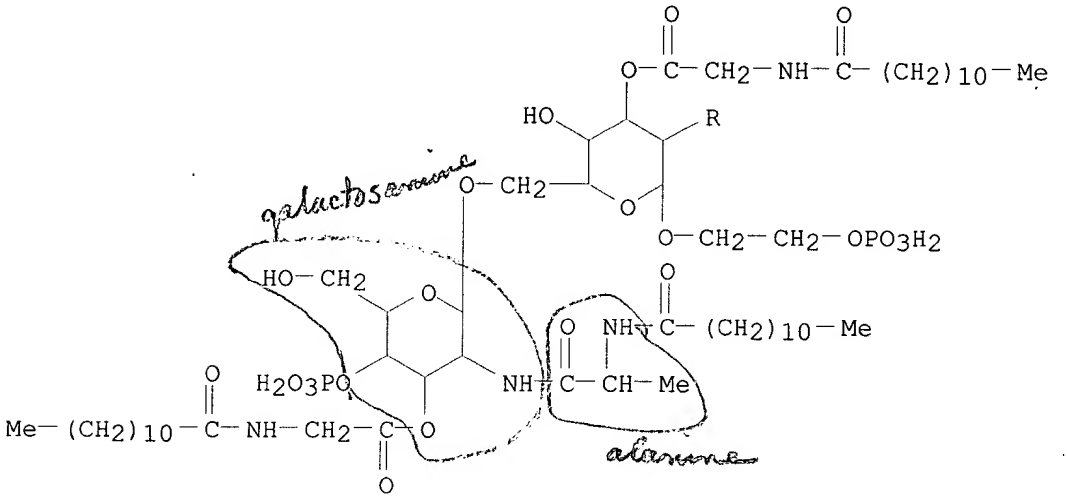


I

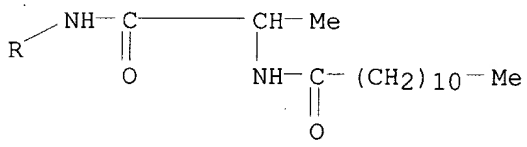
AB The title disaccharide derivs. [I; R = P(O)(OH)2, ZR6, CH(Z1R6)Z2R6; Z, Z1, Z2 = C1-6 alkylene; R6 = CO2H, P(O)(OH)2; R1, R2, R3, R4 = COR7, COZ3R8, CO(CH2)lCHQNQ1COR7, CO(CH2)lCHQNQ1COZ3R8, CO(CH2)mO2CR7, CO(CH2)mO2CZ3R8, CO(CH2)mCOR7, CO(CH2)mCOZ3R8, CO(CH2)mCOC(CH2)nNQ1COR7, CO(CH2)mCO(CH2)nNQ1COZ3R8; R7 = (un)substituted C1-30 alkyl; Z3 = C1-9 alkylene; R8 = C3-12 (one or more HO-substituted) cycloalkyl; Q = H, C1-6 alkyl, CONH2, CO2H, CH2OH; Q1 = H, C1-20 alkyl; l = 0-20; m, n = 1-20; R5 = H, P(O)(OH)2, CO(CH2)pCO2H; p = 1-6; excluding a combination of R = P(O)(OH)2, R5 = H, R1 = R2 = R3 = R4 = COR7] which are lipid A analogs having antitumor activity equal to or higher than that of the known lipid A analog I [R = P(O)(OH)2, R1, R2 = (R)-3-hydroxytetradecanoyl, R3 = (R)-3-dodecanoyloxytetradecanoyl, R4 = (R)-4-tetradecanoyloxytetradecanoyl, R5 = H] (II) and lower toxicity than II, are prepd. Thus, I [OR = .alpha.-CH2CH2P(O)(OH)2, R1, R3 = N-dodecanoyl-N-methylglyclyl, R2, R4 = N-dodecanoylglycyl, R5 = H] (III) was prepd. by bromination of 1-O-acetyl-2-deoxy-4-O-diphenylphosphono-3-O-(N-dodecanoylglycyl)-6-O-(2,2,2-trichloroethoxycarbonyl)-2-(2,2,2-trichloroethoxycarbonylamino)-D-glucopyranose followed by glycosidation with 2-(diphenylphosphonoxy)ethyl 2-deoxy-3-O-(N-dodecanoylglycyl)-2-[(N-dodecanoyl-N-methylglycyl)amino]-.alpha.-D-glucopyranoside and deprotection of the trichloroethoxy carbonyl group with Zn powder from the resulting glycoside followed by N,O-acylation with N-dodecanoyl-N-methylglycine and hydrogenolysis. A total of 81 I were prepd. and III administered to the mice at 100 .mu.g/mouse i.v. on the 7th, 12th, and 21st days from the implantation of fibrosarcoma cells, inhibited tumor growth by 19%, vs. 15% for II.

IT **126577-64-8P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, as antitumor lipid A analog)
RN 126577-64-8 CAPLUS
CN Glycine, N-(1-oxododecyl)-, 3-ester with 2-(phosphonooxy)ethyl 2-deoxy-6-O-[2-deoxy-3-O-[[(1-oxododecyl)amino]acetyl]-2-[[1-oxo-2-[(1-oxododecyl)amino]propyl]amino]-4-O-phosphono-.beta.-D-glucopyranosyl]-2-[[1-oxo-2-[(1-oxododecyl)amino]propyl]amino]-.alpha.-D-glucopyranoside, [2(S),6(S)]- (9CI) (CA INDEX NAME)

PAGE 1-A



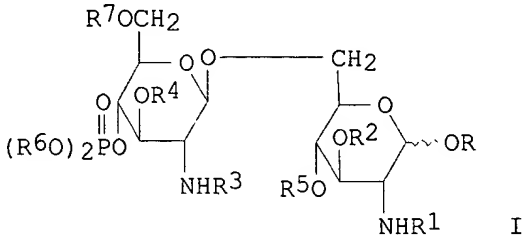
PAGE 2-A



L10 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1990:99142 CAPLUS
DOCUMENT NUMBER: 112:99142
TITLE: Preparation of 6-O-(.beta.-D-glucosaminyl)glucosamine derivatives as antitumor agents
INVENTOR(S): Nichima, Tsuneo; Soga, Tsunehiko
PATENT ASSIGNEE(S): Daiichi Seiyaku Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 43 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 01221387	A2	19890904	JP 1988-47247	19880229
JP 2535048	B2	19960918		

OTHER SOURCE(S): MARPAT 112:99142
GI



I

AB Disaccharide derivs. [I; R = P(O)(OH)2, ZR8, CH(Z1R8)Z2R8; Z - Z2 = C1-6 alkylene; R8 = CO2H, OP(O)(OH)2; R1-R4 = COR9, COZ3R10, CO(CH2)nCHQNQ1COR9, CO(CH2)nCHQNQ1COZ3R10, etc.; R9 = straight chain or branched C1-30 alkyl optionally substituted by .gtoreq.1 OH; Z3 = C1-9 alkylene; R6 = R7 = H; R10 = C3-12 cycloalkyl optionally substituted by .gtoreq.1 OH; Q = C1-6 alkyl, CONH2, CO2H, CH2OH; Q1 = H, C1-20 alkyl; n = 0-10; R5 = H, (HO)2P(O), CO(CH2)mCO2H; m = 0-5; excluding a combination of R = P(O)(OH)2 or ZR8, R5 = H or P(O)(OH)2, and R1-R4 = COR9], useful as antitumor agents with reduced toxicity compared to the known lipid A analog I [R = P(O)(OH)2, R1 = R2 = (R)-3-hydroxytetradecanoyl, R3 = (R)-3-dodecanoyloxytetradecanoyl, R4 = (R)-3-tetradecanoyloxytetradecanoyl , R5 - R7 = H] II), are prepd. Thus, treatment of 1-O-acetyl-2-deoxy-4-O-diphenylphosphono-3-O-(N-dodecanoylglycyl)-6-O-(2,2,2-trichloroethoxycarbonyl)-2-(2,2,2-trichloroethoxycarbonylamino)-D-glucose with 25% HBr/AcOH in CH2Cl2 followed by glycosidation with 2-(diphenylphosphonoxyl)ethyl 2-deoxy-3-O-(N-dodecanoylglycyl)-2-[(N-dodecanoyl-N-methylglycyl)amino]-.alpha.-D-glucopyranoside in the presence of activated CaSO4 and Hg(CN)2 in CH2Cl2 at 50-60.degree. gave I [OR = .alpha.-OCH2CH2OP(O)(OPh)2, R1 = N-dodecanoyl-N-methylglycyl, R2 = R4 = N-dodecanoylglycyl, R3 = R7 = Cl3CCH2O2C, R5 = H, R6 = Ph] which was deprotected with Zn in AcOH and then condensed with N-dodecanoyl-N-methylglycine in THF in the presence of 1-hydroxybenzotriazole and DCC to give, after hydrogenolysis over PtO2 in THF, I [OR = .alpha.-OCH2CH2OP(O)(OH)2, R1 = R3 = N-dodecanoyl-N-methylglycyl, R2 = R4 = N-dodecanoylglycyl, R5-R7 = H] (III). III and I [OR = .alpha.-OCH2CH2OP(O)(OH)2, R1 = R3 = N-dodecanoyl-N-dodecylglycyl, R2 = R4 = N-dodecanoylglycyl, R5-R7 = H] inhibited 19 and 24%, resp., the growth of fibroblast sarcoma Meth A transplated in mice vs. 15% for II.

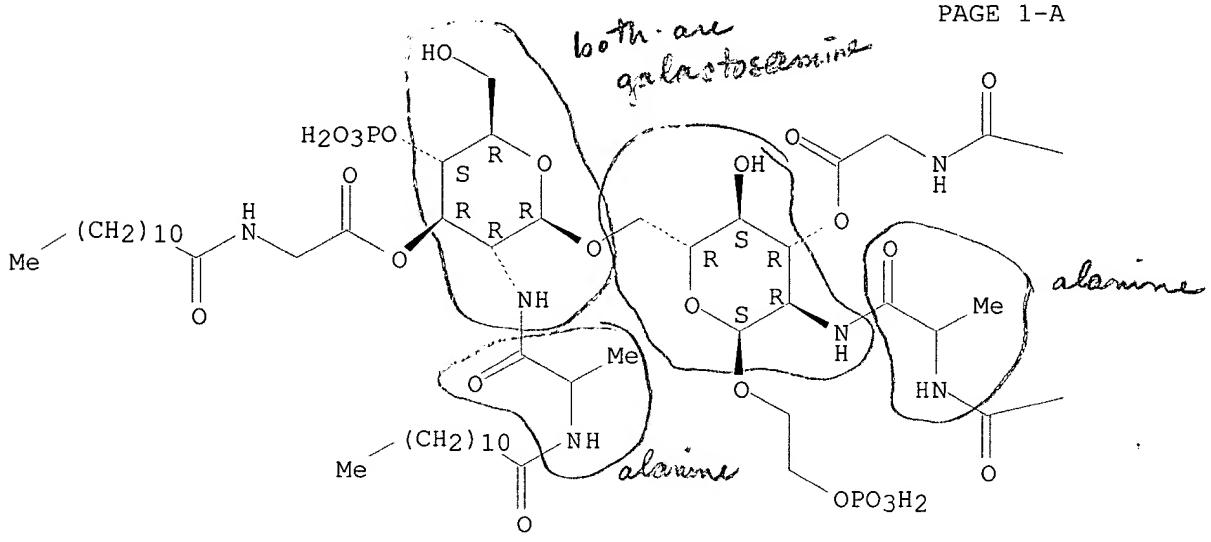
IT **123573-32-0P**
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(prepn. of, as antitumor agent)

RN 123573-32-0 CAPLUS

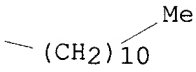
CN Glycine, N-(1-oxododecyl)-, 3-ester with 2-(phosphonooxy)ethyl 2-deoxy-6-O-[2-deoxy-3-O-[[(1-oxododecyl)amino]acetyl]-2-[[1-oxo-2-[(1-oxododecyl)amino]propyl]amino]-4-O-phosphono-.beta.-D-glucopyranosyl]-2-[[1-oxo-2-[(1-oxododecyl)amino]propyl]amino]-.alpha.-D-glucopyranoside (9CI) (CA INDEX NAME)

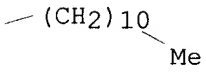
Absolute stereochemistry.

PAGE 1-A



PAGE 1-B





L10 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1990:198980 CAPLUS
DOCUMENT NUMBER: 112:198980
TITLE: Preparation of amino disaccharides as antitumor agents
INVENTOR(S): Kusama, Tsuneo; Soga, Tsunehiko; Shiba, Tetsuo
PATENT ASSIGNEE(S): Daiichi Seiyaku Co., Ltd., Japan
SOURCE: Eur. Pat. Appl., 81 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 330715	A1	19890906	EP 1988-103185	19880302
EP 330715	B1	19930616		
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, NL, SE				
US 5006647	A	19910409	US 1988-162932	19880302

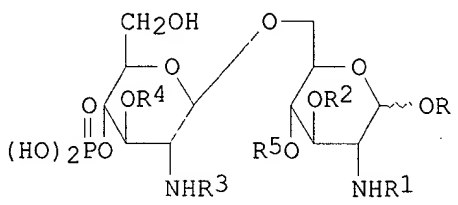
Searched by Barb O'Bryen, STIC 308-4291

AT 90685	E	19930715	AT 1988-103185	19880302
CA 1320951	A1	19930803	CA 1988-560369	19880302
US 5134230	A	19920728	US 1991-614417	19910118

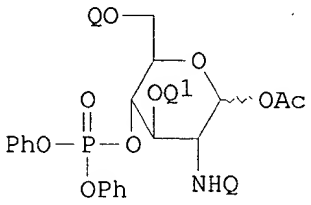
PRIORITY APPLN. INFO.: EP 1988-103185 19880302
US 1988-162932 19880302

OTHER SOURCE(S): CASREACT 112:198980; MARPAT 112:198980

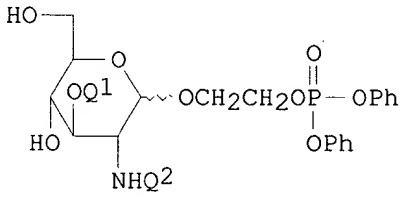
GI



I



II



III

AB The title compds. [I; R = P(O)(OH)2, ZR6, CH(Z1R6)Z2R6; R1, R2, R3, R4 = COR7, COZ3R8, etc.; R5 = H, phoshono, CO(CH2)mCO2H; R6 = CO2H, OP(O)(OH)2; R7 = alkyl; R8 = (substituted) cycloalkyl; Z, Z1, Z2, Z3 = alkylene; m = 0, 1-6 integer], useful for treatment of immunodeficiency, infectious, and neoplastic diseases, are prepd. Glucopyranose deriv. II [Q = CO2CH2CCl3; Q1 = COCH2NHCO(CH2)10Me] in CH2Cl2 was treated with HBr in HOAc and the product condensed with phoshonoethyl glucopyranoside III [Q2 = COCH2NMeCO(CH2)10Me] to give I [R = CH2CH2OP(O)(OPh)2; R1 = Q2; R2 = R4 = Q1; R3 = Q; R5 = H], which in HOAc was treated with Zn, and the product acylated with HOQ2 in THF contg. 1-hydroxybenzotriazole to give I [R = CH2CH2OP(O)(OPh)2; R1 = R3 = Q2; R2 = R4 = Q1; R5 = H]. Hydrogenolysis of this over PtO2 gave I [R = CH2CH2OP(O)(OH)2; R1 = R3 = Q2; R2 = R4 = Q1; R5 = H]. This showed a 19% suppression of tumor growth against fibrosarcoma cells (Meth A) implanted in BALB-c mice vs. 15% for natural lipid A.

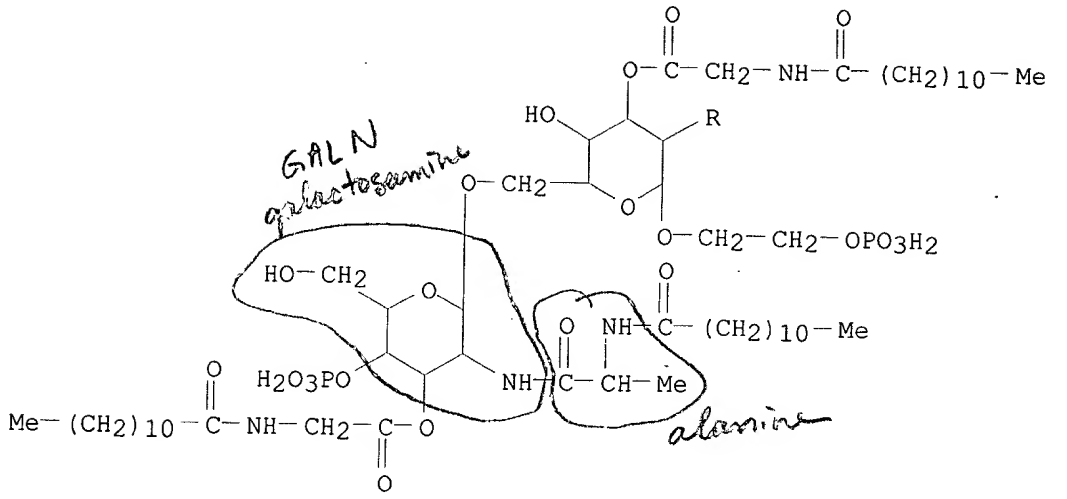
IT **126577-64-8P**

RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of, as drug)

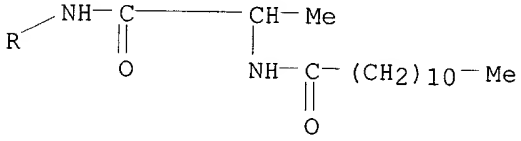
RN 126577-64-8 CAPLUS

CN Glycine, N-(1-oxododecyl)-, 3-ester with 2-(phosphonooxy)ethyl 2-deoxy-6-O-[2-deoxy-3-O-[[(1-oxododecyl)amino]acetyl]-2-[[1-oxo-2-[(1-oxododecyl)amino]propyl]amino]-4-O-phosphono-.beta.-D-glucopyranosyl]-2-[[1-oxo-2-[(1-oxododecyl)amino]propyl]amino]-.alpha.-D-glucopyranoside, [2(S),6(S)]- (9CI) (CA INDEX NAME)

PAGE 1-A



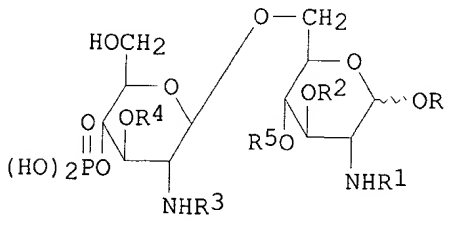
PAGE 2-A



L10 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1990:77859 CAPLUS
DOCUMENT NUMBER: 112:77859
TITLE: Preparation and testing of N,O-acyldiglucosamine phosphates as antitumor agents
INVENTOR(S): Kusama, Tsuneo; Soga, Tsunehiko; Shiba, Tetsuo
PATENT ASSIGNEE(S): Daiichi Seiyaku Co., Ltd., Japan
SOURCE: S. African, 117 pp.
CODEN: SFXXAB
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ZA 8801430	A	19881228	ZA 1988-1430	19880229

OTHER SOURCE(S): MARPAT 112:77859
GI



I

AB The title disaccharides [I; R = (HO)2P(O), CH(Z1R6)Z2R6; Z, Z1, Z2 = C1-6 alkylene; R6 = CO2H, OP(O)(OH)2; R1-R4 = COR7, COZ3R8, CO(CH2)lCHQNQ1COR7, CO(CH2)lCHQNQ1COZ3R8, CO(CH2)mCOR7, CO(CH2)mO2CZ3R8, CO(CH2)mCOR7, CO(CH2)mCOZ3R8, CO(CH2)mCO(CH2)mNQ1COR7, CO(CH2)mCO(CH2)nNQ1COZ3R8; R7 = C1-30 alkyl optionally substituted with .gtoreq.1 OH groups; Z3 = C1-9 alkylene; R8 = C3-12 cycloalkyl optionally substituted with .gtoreq.1 OH groups; Q = H, C1-6 alkyl, CONH2, CO2H, CH2OH; Q1 = H, C1-20 alkyl; l, m, n, = 0-20; R5 = H, (HO)2P(O), HO2C(CH2)oCO; o = 0-6; excluding a combination wherein R = (HO)2P(O), R5 = H, and R1-R4 = COR7] useful as antitumor agents, were prepd. Bromination of 1-O-acetyl-2-deoxy-4-O-diphenylphosphono-3-O-(N-dodecanoylglycyl)-6-O-(2,2,2-trichloroethoxycarbonyl)-2-(2,2,2-trichloroethoxycarbonyl)-D-glucopyranose with a CH2Cl2 soln. of 30% HBr in AcOH followed by glycosidation with 2-(diphenylphosphonoxy)ethyl 2-deoxy-3-O-(N-dodecanoylglycyl)-2-[(N-dodecanoyl-N-methylglycyl)amino]-.alpha.-D-glucopyranoside in CH2Cl2 in the presence of activated CaSO4 and Hg(CN)2 gave 2-(diphenylphosphonoxy)ethyl 2-deoxy-6-O-[2-deoxy-4-O-diphenylphosphono-3-O-(N-dodecanoylglycyl)-6-O-(2,2,2-trichloroethoxycarbonyl)-2-(2,2,2-trichloroethoxycarbonylamino-.beta.-O-glucopyranosyl]-3-O-(N-dodecanoylglycyl)-2-[(N-dodecanoyl-N-methylglycyl)amino]-.alpha.-D-glucopyranoside. Deprotection of the latter with Zn powder in AcOH followed by amidation with N-dodecanoyl-N-methylglycine in THF contg. DCC and 1-hydroxybenzotriazole and hydrogenolysis over PtO2 in THF gave I [R = .alpha.-CH2CH2OP(O)(OH)2, R1 = R3 = N-dodecanoyl-N-methylglycyl, R2 = R4 = N-dodecanoylglycyl, R5 = (HO)2P(O)]. I [R = .alpha.-CH2CH2OP(O)(OH)2, R1 = R3 = tetradecanoyl, R2 = R4 = 4-oxotetradecanoyl, R5 = H] at 100 .mu.g i.v. in mice on the 7th, 12th, and 21st days reducedthe wt. of fibrosarcoma tumors in mice to 5% of that of controls.

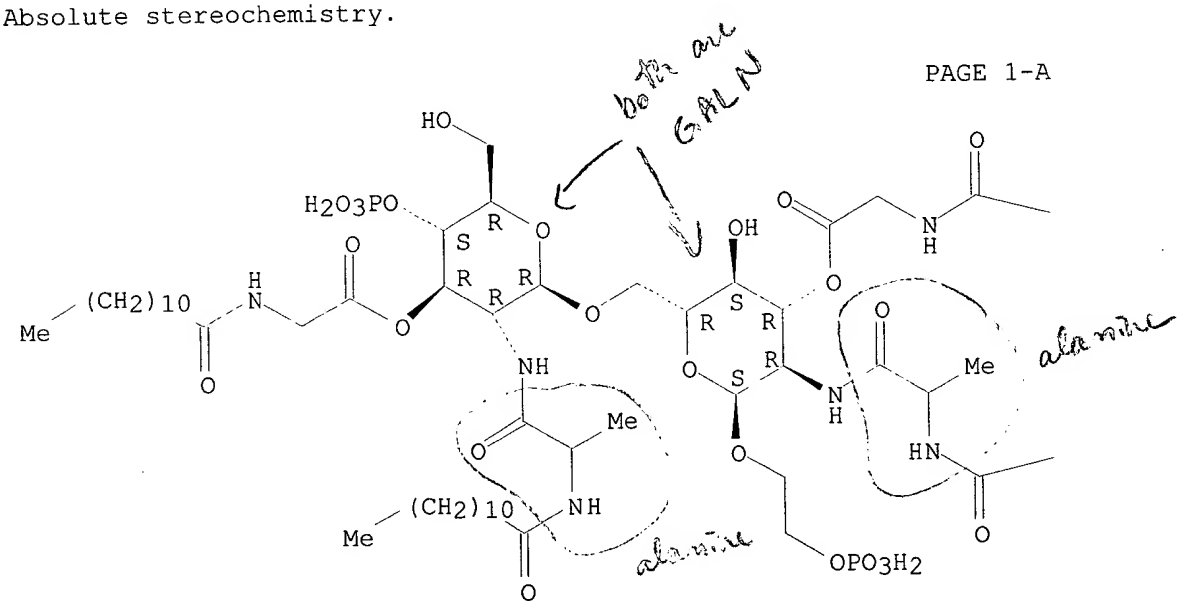
IT **123573-32-0P**
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(prepn. of, as antitumor agent)

RN 123573-32-0 CAPLUS

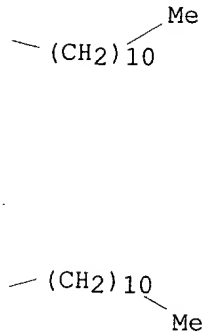
CN Glycine, N-(1-oxododecyl)-, 3-ester with 2-(phosphonooxy)ethyl 2-deoxy-6-O-[2-deoxy-3-O-[[(1-oxododecyl)amino]acetyl]-2-[[1-oxo-2-[(1-oxododecyl)amino]propyl]amino]-4-O-phosphono-.beta.-D-glucopyranosyl]-2-[[1-oxo-2-[(1-oxododecyl)amino]propyl]amino]-.alpha.-D-glucopyranoside (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



L10 ANSWER 5 OF 6 USPATFULL

ACCESSION NUMBER:	92:62001 USPATFULL
TITLE:	2-Deoxy-2-aminoglucopyranoside derivatives
INVENTOR(S):	Kusama, Tsuneo, Tokyo, Japan Soga, Tsunehiko, Tokyo, Japan Shiba, Tetsuo, Osaka, Japan
PATENT ASSIGNEE(S):	Daiichi Pharmaceutical Co., Ltd., Tokyo, Japan (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5134230		19920728
APPLICATION INFO.:	US 1991-614417		19910118 (7)

RELATED APPLN. INFO.: Division of Ser. No. US 1988-162932, filed on 2 Mar 1988, now patented, Pat. No. US 5006647

DOCUMENT TYPE:	Utility
FILE SEGMENT:	Granted
PRIMARY EXAMINER:	Brown, Johnnie R.
ASSISTANT EXAMINER:	White, Everett
LEGAL REPRESENTATIVE:	Sughrue, Mion, Zinn, Macpeak & Seas
NUMBER OF CLAIMS:	15
EXEMPLARY CLAIM:	1
LINE COUNT:	2528

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A disaccharide compound represented by formula (I): ##STR1## wherein R, R.sup.1, R.sup.2, R.sup.3, R.sup.4, and R.sup.5 are as defined in the specification and a salt thereof are disclosed. The compound exhibits excellent antitumor activity and low toxicity and is useful as an antitumor agent.

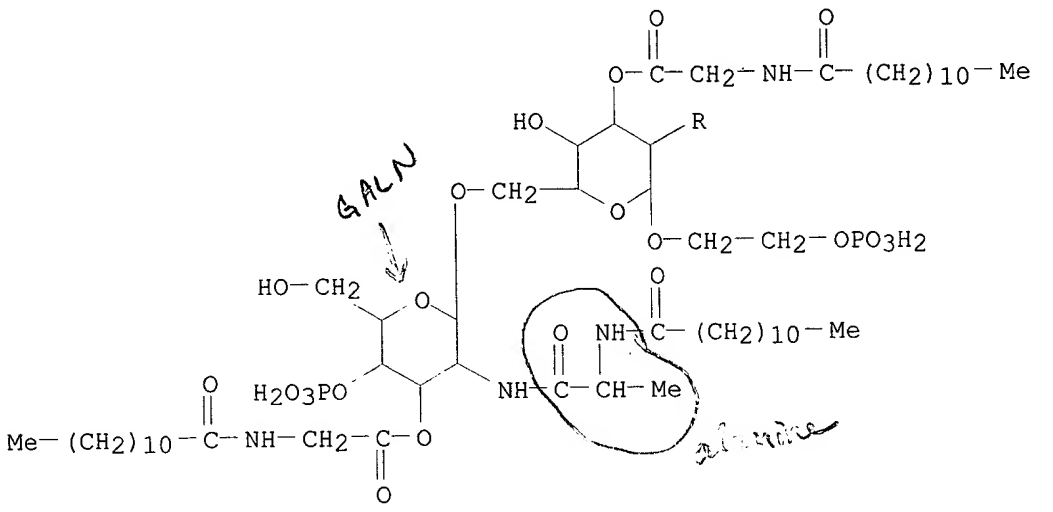
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT **126577-64-8P**
(prepn. of, as drug)

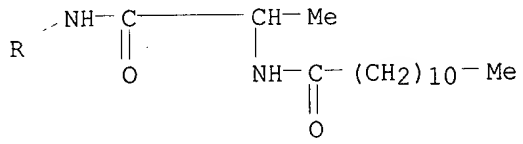
RN 126577-64-8 USPATFULL

CN Glycine, N-(1-oxododecyl)-, 3-ester with 2-(phosphonooxy)ethyl 2-deoxy-6-O-[2-deoxy-3-O-[[(1-oxododecyl)amino]acetyl]-2-[[1-oxo-2-[(1-oxododecyl)amino]propyl]amino]-4-O-phosphono-.beta.-D-glucopyranosyl]-2-[[1-oxo-2-[(1-oxododecyl)amino]propyl]amino]-.alpha.-D-glucopyranoside, [2(S),6(S)]- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A



L10 ANSWER 6 OF 6 USPATFULL

ACCESSION NUMBER:	91:28713 USPATFULL
TITLE:	Phosphorus containing disaccharide derivatives
INVENTOR(S):	Kusama, Tsuneo, Tokyo, Japan Soga, Tsunehiko, Tokyo, Japan Shiba, Tetsuo, Osaka, Japan
PATENT ASSIGNEE(S):	Daiichi Seiyaku Co., Ltd., Tokyo, Japan (non-U.S. corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 5006647		19910409	
APPLICATION INFO.:	US 1988-162932		19880302	(7)

DOCUMENT TYPE:	Utility
FILE SEGMENT:	Granted
PRIMARY EXAMINER:	Griffin, Ronald W.
ASSISTANT EXAMINER:	White, Everett
LEGAL REPRESENTATIVE:	Sughrue, Mion, Zinn, Macpeak & Seas
NUMBER OF CLAIMS:	4
EXEMPLARY CLAIM:	1
LINE COUNT:	2461

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

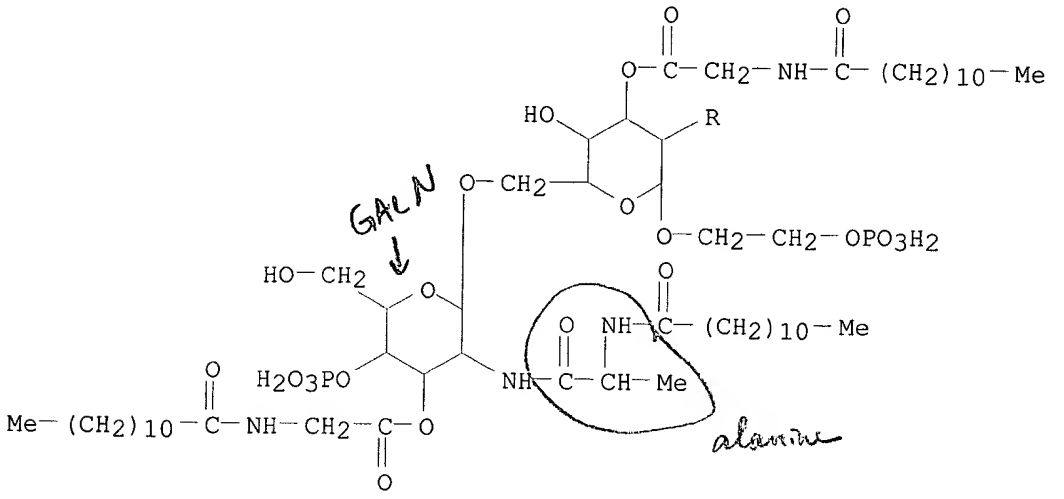
AB A disaccharide compound represented by formula (I): ##STR1## wherein R, R.sup.1, R.sup.2, R.sup.3, R.sup.4, and R.sup.5 are as defined in the specification and a salt thereof are disclosed. The compound exhibits excellent antitumor activity and low toxicity and is useful as an antitumor agent.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

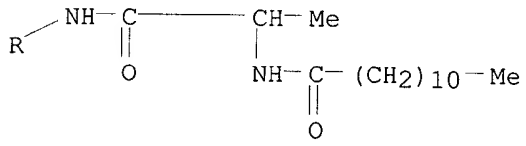
IT **126577-64-8P**
(prepn. of, as drug)

RN 126577-64-8 USPATFULL
CN Glycine, N-(1-oxododecyl)-, 3-ester with 2-(phosphonooxy)ethyl 2-deoxy-6-O-[2-deoxy-3-O-[[(1-oxododecyl)amino]acetyl]-2-[[1-oxo-2-[(1-oxododecyl)amino]propyl]amino]-4-O-phosphono-.beta.-D-glucopyranosyl]-2-[[1-oxo-2-[(1-oxododecyl)amino]propyl]amino]-.alpha.-D-glucopyranoside, [2(S),6(S)]- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A



FILE 'CAOLD' ENTERED AT 11:26:34 ON 19 MAR 2002
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2002 AMERICAN CHEMICAL SOCIETY (ACS)

FILE COVERS 1907-1966
FILE LAST UPDATED: 01 May 1997 (19970501/UP)

This file contains CAS Registry Numbers for easy and accurate substance identification. Title keywords, authors, patent assignees, and patent information, e.g., patent numbers, are now searchable from 1907-1966. TIFF images of CA abstracts printed between 1907-1966 are available in the PAGE display formats.

This file supports REG1stRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

L1 STR
L2 11 SEA FILE=REGISTRY SSS FUL L1

```
L3              STR
L5           13 SEA FILE=REGISTRY SSS FUL L3
L6            2 SEA FILE=REGISTRY ABB=ON  L5 NOT L2
L9            0 SEA FILE=CAOLD ABB=ON  L6


FILE 'HOME' ENTERED AT 11:26:38 ON 19 MAR 2002

=>
=> d his

     (FILE 'HOME' ENTERED AT 11:13:47 ON 19 MAR 2002)

     FILE 'REGISTRY' ENTERED AT 11:14:03 ON 19 MAR 2002
               ACT SIE735FULL/A
              ---------
L1              STR
L2           11 SEA FILE=REGISTRY SSS FUL L1
              ---------
L3              STR L1
L4            1 S L3
L5           13 S L3 FULL
               SAVE TEMP L5 SIE735FUL2/A
L6            2 S L5 NOT L2

     FILE 'REGISTRY' ENTERED AT 11:15:36 ON 19 MAR 2002

     FILE 'CAPLUS' ENTERED AT 11:15:52 ON 19 MAR 2002
L7            4 S L6

     FILE 'USPATFULL' ENTERED AT 11:16:03 ON 19 MAR 2002
L8            2 S L6

     FILE 'CAOLD' ENTERED AT 11:16:34 ON 19 MAR 2002
L9            0 S L6

     FILE 'CAPLUS' ENTERED AT 11:17:11 ON 19 MAR 2002

     FILE 'USPATFULL' ENTERED AT 11:17:11 ON 19 MAR 2002

     FILE 'CAPLUS, USPATFULL' ENTERED AT 11:17:18 ON 19 MAR 2002
L10           6 DUP REM L7 L8 (0 DUPLICATES REMOVED)

     FILE 'CAOLD' ENTERED AT 11:26:34 ON 19 MAR 2002

     FILE 'HOME' ENTERED AT 11:26:38 ON 19 MAR 2002
```